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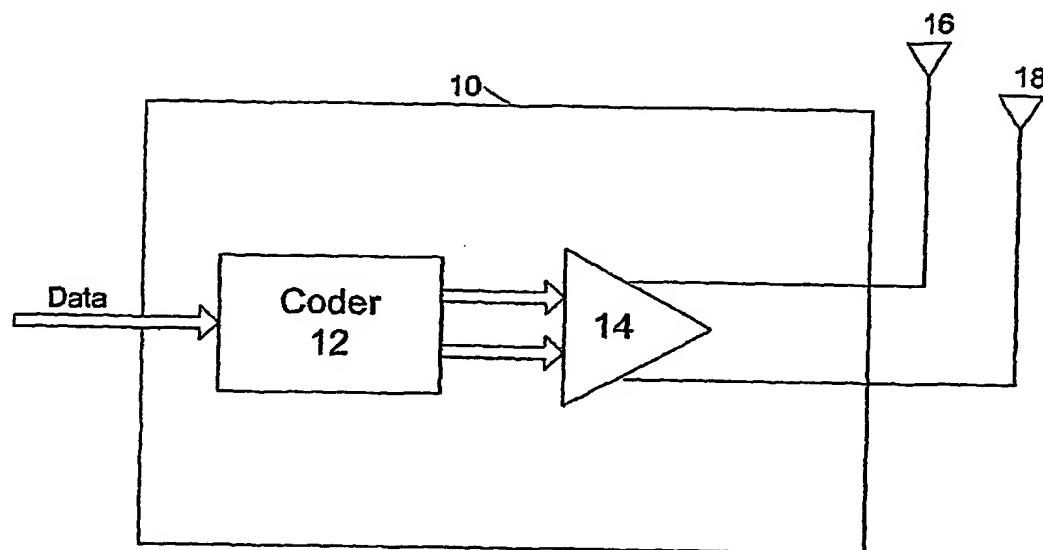
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(54) Title: **METHOD OF TRANSMITTING DATA USING SPACE TIME BLOCK CODES**



(57) Abstract: To transmit data, a set of at least 2^m $n \times n$ matrices that represent an extension of a fixed-point-free group is provided. To each of 2^m of the matrices is allocated one of the binary numbers from 0 to $2^m - 1$. The data are mapped into the matrices according to the allocation (12). The mapped matrices are transmitted, preferably using n antennas (16, 18), one antenna per row of each matrix.

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